

Atty. Docket No. 1596C3	Serial No. 09/620,526
Applicant: BRUCE E. NOVICH, ET AL.	
Filing Date JULY 20, 2000	Group Art Unit 1771/1724

U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	3,919,028	11/11/75	Lewis et al.	156	148	
	AB	3,928,666	12/23/75	Morrison et al.	428	378	
	AC	4,009,317	02/22/77	Chase et al.	428	378	
	AD	4,118,528	10/03/78	Lowry	428	65	
	AE	4,168,345	09/18/79	de Massey et al.	428	441	
	AF	4,228,514	10/14/80	Weiss	364	551	
	AG	4,247,364	01/27/81	Culp	162	136	
	AH	4,370,157	01/25/83	Barch et al.	65	3.43	
	AI	4,372,347	02/08/83	Olson	139	420	
	AJ	4,379,798	04/12/83	Palmer et al.	428	113	
	AK	4,383,785	05/17/83	Rice	409	131	

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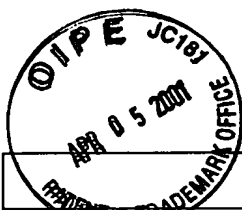
		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	AL	3214685 A	19-09-91	Japan	B32B	15/08		x
	AM	3212987 A	18-09-91	Japan	B32B	15/08		x
	AN	455437	24-02-92	Japan	C08J	05/24	x	
	AO	Hei4-2857	07-01-92	Japan	D06B	19/00	x	
	AP	4255288	10-09-92	Japan	H05K	01/03		x

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	F. Clauss, Solid Lubricants and Self-Lubricating Solids, (1972) at pp. 1, 19-22, 42-54, 75-77, 80-81, 82, 90-102, 113-120, 128
AS	K. Ludema, Friction, Wear, Lubrication, A Textbook in Tribology (1996) at pp. 129, 125, 27.
AT	R. Weast (Ed.), Handbook of Chemistry and Physics, CRC Press (1975) at pp. F-22.

Examiner	Date Considered 10/02
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Attorney Docket No. 1596C3	Serial No. 09/620,526
Applicant: BRUCE E. NOVICH, ET AL.	
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U.S. PATENT DOCUMENTS

AA	4,390,647	06/28/83	Girgis	523	212	
AB	4,396,676	08/02/83	Brannon et al.	17	04	
AC	4,514,466	04/30/85	Leon et al.	428	383	
AD	4,530,876	07/23/85	Brodmann et al.	428	283	
AE	4,532,054	07/30/85	Johnson	252	12.4	
AF	4,532,176	07/30/85	Briggs et al.	428	288	
AG	4,579,772	04/01/86	Bhatt et al.	428	229	
AH	4,605,588	08/12/86	Simpson et al.	428	288	
AI	4,615,933	10/07/86	Traut	428	252	
AJ	4,642,271	02/10/87	Rice	428	698	
AK	4,643,936	02/17/87	Eidal	428	214	

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						Yes	No
AL	4125140 A	24-04-92	Japan	B32B	15/08		x
AM	4366628 A	18-12-92	Japan	B32B	05/28		x
AN	Hei4-307787	07-01-97	Japan	H05K	01/03	x	
AO	Hei5-493	08-01-93	Japan	B32B	27/38	x	
AP	4367763 A	21-12-92	Japan	B05D	01/06		x

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	W. Campbell, "Solid Lubricants," Boundary Lubrication; An Appraisal of World Literature, ASME Research Committee on Lubrication (1969) at pp. 197-203
AS	"PolarTherm® Thermally Conductive Fillers for Polymeric Materials", a Technical Bulletin of Advanced Ceramics Corp. of Lakewood, Ohio (1996)
AT	H. Katz et al. (Ed.), Handbook of Fillers and Plastics, "2. Principles of Filler Selection and Use" by T.H. Ferrigno (1987) at pp. 8-10, 28.

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Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	4,713,285	12/15/87	Klein	428	283	
	AB	4,750,806	06/14/88	Biswas	350	96.30	
	AC	4,752,527	06/21/88	Sanzero et al	428	391	
	AD	4,762,750	08/09/88	Girgis et al	428	378	
	AE	4,762,751	08/09/88	Girgis et al	428	378	
	AF	4,781,495	11/01/88	Hatch et al	408	1 R	
	AG	4,789,593	12/06/88	Das	428	391	
	AH	4,795,678	01/03/89	Girgis	428	391	
	AI	4,806,416	02/21/89	Puzo	428	285	
	AJ	4,820,575	04/11/89	Kolzer	428	240	
	AK	4,826,365	05/02/89	White	408	144	

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		Document No.	Date	Country	Class	Subclass	Translation Yes	No
	AL	Hei5-110218	30-04-93	Japan	H05K	01/03	x	
	AM	Hei5-78945	30-03-93	Japan	D03D	01/00	x	
	AN	5261870 A	12-10-93	Japan	B32B	27/02		x
	AO	5261855 A	12-10-93	Japan	B32B	15/08		x
	AP	5286093 A	02-11-93	Japan	B32B	27/20		x

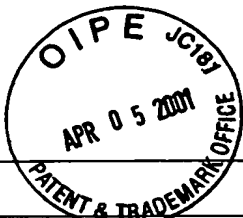
OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	" ORPAC BORON NITRIDE RELEASECOAT-CONC" , a technical bulletin of ZYP Coatings, Inc.
	AS	ASTM Designation: C-177-85 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus1 (1993)
	AT	T. Perros, Chemistry, (1967) at pp. 186-187

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Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
<i>[initials]</i>	AA	4,858,479	08/22/89	Voss et al	73	865.9	
<i>[initials]</i>	AB	4,863,787	09/05/89	Gawin	428	240	
	AC	4,869,954	09/26/89	Squitieri	428	283	
	AD	4,872,787	10/10/89	Arai et al	408	1 R	
	AE	4,894,105	01/16/90	Dyksterhouse et al	156	181	
	AF	4,913,740	04/03/90	Frederickson	106	1.11	
	AG	4,917,547	04/17/90	Frederickson et al	408	136	
	AH	4,919,866	04/24/90	Kubbutat	264	45.3	
	AI	4,929,370	05/29/90	Hatch et al	252	12.2	
<i>[initials]</i>	AJ	4,933,381	06/12/90	Hager	523	414	
	AK	4,935,294	06/19/90	Misevich et al	422	246	

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<i>[initials]</i>	AL	6112611 A	22-04-94	Japan	H05K	01/03		x
	AM	6302926 A	28-10-94	Japan	H05K	01/03		x
	AN	6305078 A	01-11-94	Japan	B32B	18/00		x
<i>[initials]</i>	AO	Hei5-174623	13-07-93	Japan	H01B	03/00	x	
	AP	7022718 A	24-01-95	Japan	H05K	01/03	x	

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<i>[initials]</i>	AR	J. Mitchell, Fundamentals of Soil Behavior, (1976) at pp. 32-34
<i>[initials]</i>	AS	H. Van Olphen, Clay Colloid Chemistry, (2d Ed. 1977) at pp. 57-63
<i>[initials]</i>	AT	Minerals in Soil Environments, Soil Science Society of America (1977) at pp. 196-199

Examiner <i>[signature]</i>	Date Considered <i>10/02</i>
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U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	4,943,606	07/24/90	Inoue et al	523	457	
	AB	4,948,662	08/14/90	Simpson et al	428	288	
	AC	4,960,634	10/02/90	Boyko et al	428	220	
	AD	4,971,779	11/20/90	Paine et al	423	290	
	AE	4,980,217	12/25/90	Grundfest et al	428	113	
	AF	4,997,702	03/05/91	Gazit et al	428	283	
	AG	5,038,555	08/13/91	Wu et al	57	249	
	AH	5,005,978	04/09/91	Skunes et al	356	372	
	AI	5,011,870	04/30/91	Peterson	523	220	
	AJ	5,025,045	06/18/91	Gawin et al	523	440	
	AK	5,028,984	07/02/91	Ameen et al	357	72	

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		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	AL	7069683 A	14-03-95	Japan	C03C	25/00		x
	AM	7176843 A	14-07-95	Japan	H05K	01/03		x
	AN	Hei7-179055	24-10-95	Japan	D06M	15/333	x	
	AO	8118542 A	14-05-96	Japan	B32B	15/08		x
	AP	8309928 A	26-11-96	Japan	B29C	70/06		x

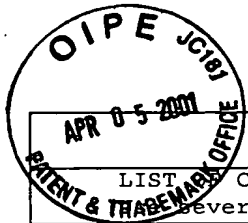
OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	R. Evans, An Introduction to Crystal Chemistry, (1948) at pp. 275-276
AS	Electronic Materials Handbook™, Vol. 1 Packaging ASM International (1989) at pp. 534-537, 113-115.
AT	Webster New Collegiate Dictionary, (1977) at pp. 1178

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	Filing Date JULY 20, 2000	Group Art Unit 1771-1774

U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,047,279	09/10/91	Nasu et al	428	156	
	AB	5,047,281	09/10/91	Betz et al	428	201	
	AC	5,067,859	11/26/91	Korbonski	408	1 R	
	AD	5,082,402	01/21/92	Gaku et al	408	1 R	
	AE	5,126,532	06/30/92	Inagawa et al	219	121	
	AF	5,132,254	07/21/92	Stempin et al	501	32	
	AG	5,151,146	09/29/92	Green	156	177	
	AH	5,188,757	02/23/93	Paine, Jr. et al	252	183.11	
	AI	5,204,295	04/20/93	Paine, Jr. et al	501	96	
	AJ	5,217,796	06/08/93	Kasai et al	428	229	
	AK	5,219,656	06/15/93	Klett et al	428	378	

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	AL	9003217 A	07-01-97	Japan	C08J	05/24		x
	AM	9118759 A	06-05-97	Japan	B29B	11/16		x
	AN	Hei9-3770	07-01-97	Japan	D06M	13/513	x	
	AO	Hei9-209233	12-08-97	Japan	D03D	01/00	x	
	AP	9270584 A	14-10-97	Japan	H05K	03/46	x	

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AR	R. Tummalas (Ed.), Microelectronics Packaging Handbook, 1989 at pp. 895-897, 905, 906, 36, 37, 3, 174
AS	I. Rubin, Handbook of Plastic Materials and Technology, (1990) at pp. 955-1062, 1179-1215 and 1225-1271.
AT	R. Weast (Ed.), CRC Handbook of Chemistry and Physics, CRC Press (71st Ed. 1990) at pp. 4-158, 12-63

Examiner <i>[Signature]</i>	Date Considered 10/02
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Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA	5,230,951	07/27/93	Birchall et al	428	292	
AB	5,236,777	08/17/93	Inoguchi et al	428	268	
AC	5,246,746	09/21/93	Michalski et al	427	593	
AD	5,275,883	01/04/94	Leone et al	428	373	
AE	5,281,441	01/25/94	Kasai et al	427	300	
AF	5,284,807	02/08/94	Komori et al	501	35	
AG	5,286,562	02/15/94	Girgis	428	391	
AH	5,324,766	06/28/94	Ikejiri et al	524	433	
AI	5,326,410	07/05/94	Boyles	156	71	
AJ	5,336,024	08/09/94	Nakagawa et al	408	1 R	
AK	5,354,602	10/11/94	Stranford et al	428	220	

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Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
AL Hei9-308809	02-12-97	Japan	B01D	46/00	x	
AM 10338758 A	22-12-98	Japan	C08J	05/24	x	
AN 11269752 A	05-10-99	Japan	D04H	01/64		x
AO Hei11286073	19-10-99	Japan	B32B	17/04	x	
AP 10146916 A	02-06-98	Japan	B32B	17/04		x

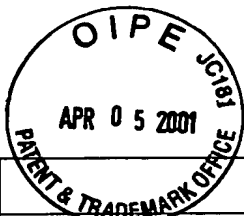
OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	ASTM Designation: C-518-91 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus1
AS	G. Slack, "Nonmetallic Crystals with High Thermal Conductivity", J. Phys. Chem. Solids (1973) Vol. 34, pp. 321-335
AT	A. Weimer (Ed.), Carbide, Nitride and Boride Materials Synthesis and Processing, (1997) at pp. 654, 653

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U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA		5,358,741	10/25/94	Gat	427	249	
AB		5,364,657	11/15/94	Throne	427	185	
AC		5,370,911	12/06/94	Throne et al	427	469	
AD		5,412,003	05/02/95	Akiyama et al	523	513	
AE		5,418,194	05/23/95	Dawes et al	501	52	
AF		5,427,986	06/27/95	Chyung et al	501	92	
AG		5,431,995	07/11/95	Narita et al	428	287	
AH		5,435,671	07/25/95	Weinreich	408	1 R	
AI		5,449,480	09/12/95	Kuriya et al	264	112	
AJ		5,507,603	04/16/96	Nakano et al	408	1 R	
AK		5,507,962	04/16/96	Jahanmir et al	252	49.3	

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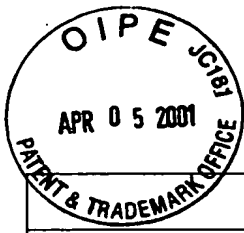
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AN		WO97/35457	25-09-97	PCT	H05K	01/03	x	
AO		WO96/39364	12-12-96	PCT	C03C	25/02	x	
AP		2072121 C1	26-07-91	Russia	H05K	03/00	x	

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AR	W. Callister, Materials Science and Engineering An Introduction, (2d Ed. 1991) at pp.637, 662
AS	"WebElements" http:// www.shef.ac.uk/~chem/web-elents/nofr-image-1/hardness-minerals-1.html (February 26, 1998)
AT	"BRAZE STOP-OFF PAINT" ZYP COATINGS, Inc. technical bulletin

Examiner	Date Considered 10/22
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Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,508,096	04/16/96	Van Skyhawk	428	251	
	AB	5,520,999	05/28/96	Van Skyhawk	428	251	
	AC	5,541,238	07/30/96	Yamada et al	523	200	
	AD	5,552,215	09/03/96	Tredway et al	428	298	
	AE	5,562,966	10/08/96	Clarke et al	428	113	
	AF	5,591,789	01/07/97	Iruvanti et al	523	515	
	AG	5,593,767	01/14/97	Noda et al	428	251	
	AH	5,599,144	02/04/97	Bickham et al	408	144	
	AI	5,672,297	09/30/97	Soane	252	511	
	AJ	5,674,351	10/07/97	Lovoi	156	629	
	AK	5,677,045	10/14/97	Nagai et al	428	260	

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	AL	2236540 A	10-04-91	United Kingdom	C23C	16/34	x	
	AM	29609017 U	29-08-96	Germany	B23B	51/02		x
	AN	CH670105A5	12-05-89	Switzerland	C23C	18/12	x	
	AO	0468476A2	29-01-92	EP	B32B	15/14	x	
	AP	8-119682	14-05-96	Japan	C03C	25/02	x	

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	" BORON NITRIDE LUBRICOAT® " ZYP Coatings, Inc. technical bulletin
	AS	" WELD SPATTER RELEASE " ZYP Coatings, Inc. technical bulletin
	AT	" BORON NITRIDE LUBRICOAT®-BNW " , ZYP Coatings, Inc. technical bulletin

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AA		5,690,715	11/25/97	Schiwek	65	448	
AB		5,690,837	11/25/97	Nakaso et al	216	17	
AC		5,719,090	02/17/98	Appelt et al	442	19	
AD		5,756,405	05/26/98	Appelt et al	442	19	
AE		5,759,924	06/02/98	Sahlin	442	60	
AF		5,800,874	09/01/98	Appelt et al	427	412	
AG		5,853,809	12/29/98	Campbell et al	427	407.1	
AH		5,858,461	01/12/99	Appelt et al	427	217	
AI		5,866,253	02/02/99	Phillipps et al	428	374	
AJ		5,869,173	02/09/99	Zheng et al	428	313.3	
AK		5,871,819	02/16/99	Appelt et al	427	381	

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AL		2503766 A	15-10-82	France	E04B	01/78		x
AM		1203247 A2	16-08-89	Japan	C03C	25/02		x
AN		Hei9241397	16-09-97	Japan	C08J	05/04	x	
AO		9-208268	12-08-97	Japan	C03C	25/02	x	
AP		60209072 A	21-10-85	Japan	C03C	25/02		x

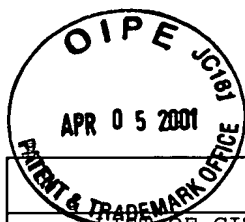
OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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AS	" Hollow Nanoparticles Excel in Lubrication" , C&EN (June 23, 1997) at pp. 9-10
AT	J. Halling, Principles of Tribology, (1975) at pp. 134-139

Examiner	Date Considered 10/02
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C3	Serial No. 09/620,526
Applicant: BRUCE E. NOVICH, ET AL.	
Filing Date JULY 20, 2000	Group Art Unit 111/727

U.S. PATENT DOCUMENTS

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AC	5,888,036	03/30/99	Arai et al	408	230	
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AH	5,940,787	08/17/99	Gelston	702	134	
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AJ	5,998,237	12/07/99	Conrod et al	438	106	
AK	6,000,886	12/14/99	Washio et al	408	1 R	

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Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
AL 7-102483	18-04-95	Japan	D06M	15/356	x	
AM 8-325950	10-12-96	Japan	D06M	15/55	x	
AN 09087992 A	31-03-97	Japan	D21H	13/44		x
AO 6248572 A	06-09-94	Japan	D06M	11/79		x
AP 9291474 A	11-11-97	Japan	D06M	11/49		x

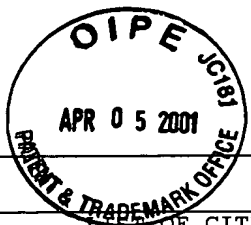
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C3	Serial No. 09/620,526
Applicant: BRUCE E. NOVICH, ET AL.	
Filing Date JULY 20, 2000	Group Art Unit 1771 1724

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Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
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AN 53-143582	14-12-78	Japan	A01K	87/00	x	
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Examiner	Date Considered 10/22
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



	Atty. Docket No. 1596C3	Serial No. 09/620,526
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Applicant: BRUCE E. NOVICH, ET AL.	
	Filing Date JULY 20, 2000	Group Art Unit 1771 1778

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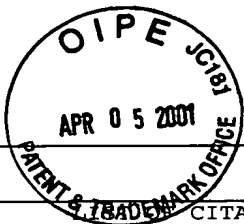
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	AT	R. Weast (Ed), HANDBOOK OF CHEMISTRY AND PHYSICS, CRC Press 1975, pp. 12-54, F-166, D-171.

Examiner	Date Considered 10/02
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C3	Serial No. 09/620,526
CITATIONS BY APPLICANT (Use several sheets if necessary)	
Applicant: BRUCE E. NOVICH, ET AL.	
Filing Date JULY 20, 2000	Group Art Unit 1771-1724

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AR	Kirk-Othmer ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY, 2d Ed, 1964, Vol. 3, pp. 678-679
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AT	Sulzer Ruti L5000 Product Bulletin

Examiner	Date Considered 10/02
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C3	Serial No. 09/620,526
Applicant: BRUCE E. NOVICH, ET AL.	
Filing Date JULY 20, 2000	Group Art Unit 1771 1774

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OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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AS	IPC-EG-140 " Specification for Finished Fabric Woven from " E" Glass for Printed Boards, page 1, publication of THE INSTITUTE FOR INTERCONNECTING AND PACKAGING ELECTRONIC CIRCUITS (June 1997).
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Examiner	Date Considered 10/82
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



		Atty. Docket No. 1596C3	Serial No. 09/620,526
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)		Applicant: BRUCE E. NOVICH, ET AL.	
		Filing Date JULY 20, 2000	Group Art Unit 4771-1724

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AR	" Fabrics Around the World" , Technical Bulletin of Clark-Schwebel, Inc. (1995)
AS	MICROELECTRONICS PACKAGING HANDBOOK, R. Tummala et al. (Ed.) (1989) at pp. 25-43, 174, 858-861, and 885-909.
AT	PRINTED CIRCUITS HANDBOOK, C. Coombs Jr., 3d Ed. by Hewlett-Packard Company, pp. 6.1-6.14.

Examiner	Date Considered
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



	Atty. Docket No. 1596C3	Serial No. 09/620,526
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Applicant: BRUCE E. NOVICH, ET AL.	
	Filing Date JULY 20, 2000	Group Art Unit 1771

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AS	IPC-4101 " Specification for Base Materials for Rigid and Multilayerf Printed Boards" (Dec. 1997)
AT	K. Loewenstein, The Manufacturing Technology of Glass Fibers, (3d Ed. 1993) at pp. 25, 27 and 47-60.

Examiner	Date Considered 10/22
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



		Atty. Docket No. 1596C3	Serial No. 09/620,526
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)		Applicant: BRUCE E. NOVICH, ET AL.	
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AR	DATABASE INSPEC Institute of Electrical Engineers, Insp No. 6242125, Bruce Novich entitled " Hybon RCY Yarns: A Laminate Reinforcement Developed for Printed Circuit Boards, CircuiTree, March 1999, Vol 12, No. 3, Page 44, 46, 51
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AT	USSN 09/620,526 entitled " Impregnated Glass Fiber Strands and Products Including the Same" , Ernest L. Lawton et al, filed July 20, 2000 (Atty Docket No. 1596C3)

Examiner	Date Considered 10/12
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C3	Serial No. 09/620,526
Applicant: BRUCE E. NOVICH, ET AL.	
Filing Date JULY 20, 2000	Group Art Unit 1771 / 1774

U.S. PATENT DOCUMENTS

Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
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FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
AL						
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OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	USSN 09/620,523 entitled "Impregnated Glass Fiber Strands and Products Including the Same", Ernest L. Lawton et al, filed July 20, 2000 (Atty Docket No. 1596C5)
AS	USSN 09/620,524 entitled "Impregnated Glass Fiber Strands and Products Including the Same", Ernest L. Lawton et al, filed November 3, 2000 (Atty Docket No. 1596C6)
AT	

Examiner	Date Considered
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)